Application No.: 10/085,573

Amendment Dated: December 20, 2005 Reply to Office Action of: October 20, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

- 1.-2. (Cancelled).
- 3. (Currently Amended) A feed control device for use with an optical pickup which is used with an optical disk, said feed control device comprises:
 - a feed to which said optical pickup is fixed-;
 - a feed motor for driving said feed;
- a central processing unit for providing feed control amount for controlling said feed based on address information read from said optical disk; and
- a driver for giving said feed control amount to said motor for moving said feed,

wherein, at startup, a predetermined reference feed control amount is effected using said feed moves based on a ratio between an address information acquired from said optical disk by moving said feed for a predetermined period and a predetermined reference address information, as a compensation value.

and said ratio compensates said feed control amount as a compensation value.

- 4. (Original) The feed control device of claim 3, said feed control device further comprising a memory for storing said feed control amount, and wherein feed control amount newly acquired by multiplying said reference feed control amount by said compensation value is overwritten in said memory as a new reference feed control amount.
- 5. (Original) A feed control device for use with an optical disk pickup which is used with an optical disk, said feed control device comprising:
 - a feed to which said optical pickup is fixed;

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a feed motor for driving said feed;

a central processing unit for providing feed control amount based on address information read from said optical disk;

a driver for giving feed control amount to said motor for moving said feed;

wherein, at startup, said feed moves based on a predetermined feed control amount and acquires address information there and then the acquired address information is compared with a predetermined reference address information, then the predetermined reference feed control amount is effected based on the comparison result.

6. (Previously Presented) The feed control device for use with a feed motor which is used to move an optical disk pickup,

said feed control device comprising:

measuring means for measuring movement of said optical disk pickup;

and compensation means for effecting a feed control amount to effect operation of said feed motor based on a result of a comparison between said measured movement and a predetermined reference value,

wherein said feed control amount is effected responsive to at least one of a power supply switch being turned on, and said optical disk is mounted.

7. (Original) A feed control device for compensating feed control amount for controlling movement operation of a feed which an optical pickup is fixed to, said feed control device comprising:

a driver for driving said feed; and

a central processing unit for transmitting a feed control amount to said driver,

so that:

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said optical pickup is moved to the most inner circumference position of said optical disk, and then said optical pickup is moved to outer circumferential direction for predetermined period and acquiring address information from said optical disk at that point;

difference XZ between said acquired address information and a predetermined reference address information is calculated;

difference YZ between address information acquired by performing standard acceleration/deceleration control algorithm at setting stage and said predetermined reference address information is calculated; and

said feed control amount is compensated by multiplying ratio between said difference XZ and said difference YZ.

- 8. (Original) The feed control device of claim 7, wherein said standard acceleration/deceleration control algorithm sets acceleration in acceleration region, maximum speed in constant speed region and acceleration in deceleration region in feed control amount for movement operation.
- 9. (Cancelled).
- 10. (Previously Presented) A method for compensating feed control amount for controlling driving of a feed, which optical pickup is fixed to, driven by a feed motor, comprising the steps of:

measuring movement of said feed;

comparing measured movement with a predetermined reference value; and

compensating a reference feed control amount effecting movement of said feed according to the result of the comparison,

wherein said steps are initiated responsive to at least one of when a power supply switch turns on or when said optical disk is changed.

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11. (Original) A method for compensating feed control amount for controlling driving of a feed to which optical pickup is fixed, said method comprising the steps of:

moving said optical pickup to the most inner circumference position of a optical disk;

moving said optical pickup to outer circumferential direction for a predetermined period and acquiring address information at this point;

calculating difference XZ between said acquired address information and a predetermined reference address information;

calculating difference YZ between address information acquired by performing standard acceleration/deceleration control algorithm at setting stage and said predetermined reference address information is calculated; and

multiplying a ratio between said difference XZ and said difference YZ by said feed control amount.

- 12. (Original) The method of claim 11 wherein moving period to move said optical pickup to the most inner circumference position is longer than said predetermined period.
- 13. (Original) The method of claim 11 wherein moving period to move said optical pickup to the most inner circumference position is longer than the time period that moving said optical pickup from the most outer circumference position to the most inner circumference position.
- 14. (Original) The method of claim 12 wherein moving period to move said optical pickup to the most inner circumference position is longer than the time period that moving said optical pickup from the most outer circumference to the most inner circumference position.
- 15. (Original) The method of claim 11 wherein if a position that said optical pickup is moved toward outer circumference for predetermined period is within leadin area of a first session, said address information is treated as zero.

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16. (Original) The method of claim 12 wherein if a position that said optical pickup is moved toward outer circumference for predetermined period is within leadin area of a first session, said address information is treated as zero.

- 17. (Original) The method of claim 13 wherein if a position that said optical pickup is moved toward outer circumference for predetermined period is within leadin area of a first session, said address information is treated as zero.
- 18. (Original) The method of claim 14 wherein if a position that said optical pickup is moved toward outer circumference for predetermined period is within leadin area of a first session, said address information is treated as zero.
- 19. (Original) The method of claim 11, wherein if said acquired address information is extremely bigger or extremely smaller than said address information acquired by performing standard control algorithm at setting stage, predetermined limit value is used instead of said address acquired information in order to enable optimum feed control.
- 20. (Previously Presented) A feed control device for use with an optical disk pickup which is used with an optical disk, said feed control device comprising:
 - a feed to which said optical disk pickup is fixed;
 - a feed motor for driving said feed;
- a driver for transmitting a feed control amount to said motor for moving said feed; and
- a central processing unit for providing said feed control amount based on address information read from said optical disk, for

measuring movement of said feed, for comparing said measured movement with predetermined reference value, and for effecting said feed control amount based on a result of the comparison,

wherein said feed control amount is effected responsive to at least one of said power supply switch being turned on or said optical disk being changed.

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21. (Original) The feed control device of claim 3, wherein said feed control amount is effected responsive to at least one of said power supply switch being turned on or said optical disk being changed.

22. (Original) The feed control device of claim 5, wherein said feed control amount is effected responsive to at least one of said power supply switch being turned on or said optical disk being changed.